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## INDEX TO AMERICAN BOTANICAL LITERATURE (1905)

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material ; the word America being used in its broadest sense.

Reviews, and papers which relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omission their kindness will be appreciated.

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**Bailey, L. H.** Systematic work and evolution. *Science* II. 21: 532-535. 7 Ap 1905.

**Britton, N. L.** Manual of the flora of the Northern States and Canada. Edition 2. i-xxiv. 1-1112. New York, 1905.

**Claassen, E.** Key to the liverworts recognized in the sixth edition of Gray's Manual of botany. *Ohio Nat.* 5: 312-315. 24 Ap 1905.  
Key to the genera only.

**Cockerell, T. D. A.** The name *Melampodium*. *Torreyana* 5: 70. 27 Ap 1905.

**Coker, W. C.** Vegetation of the Bahama Islands. 185-270. *pl.* 1 and *pl.* 33-47. New York, 1905.

Special Publ. from "The Bahama Islands" (Geogr. Soc. Baltimore). In the list of plants collected, several are described as new.

**Cotton, E. C.** Key to Ohio ashes in the winter condition. *Ohio Nat.* 5: 270. 24 Ja 1905.

**Cushman, J. A.** Notes on the zygo-spores of certain New England desmids, with descriptions of a few new forms. *Bull. Torrey Club* 32: 223-229. *pl.* 7, 8. 6 My 1905.

With descriptions of 2 new species and several new varieties.

**Davidson, A.** Flora of Clifton, Arizona. II. *Bull. So. Calif. Acad. Sci.* 4: 18, 19. 21 F 1905 ; — III. *Bull. So. Calif. Acad. Sci.* 4: 35, 36. 30 Mr 1905.

- Davis, B. M.** Studies on the plant cell — V. *Am. Nat.* **39**: 217–268. *f.* 16–18. 26 Ap 1905.
- Eastwood, A.** New species of western plants. *Bull. Torrey Club* **32**: 193–218. 6 My 1905.  
Descriptions of 38 new species in 26 genera.
- Evans, A. W.** New or noteworthy *Hepaticae* from Florida. *Bull. Torrey Club* **32**: 179–192. *pl.* 5. 6 My 1905.  
Including new species in *Plagiochila*, *Cololejeunea*, and *Lejeunea*.
- Flory, C. H.** Key to the Ohio maples in the winter condition. *Ohio Nat.* **5**: 297, 298. 23 Mr 1905.
- Gleason, H. A.** Notes from the Ohio State Herbarium. II. *Ohio Nat.* **5**: 264. 24 Ja 1905; — III. *Ohio Nat.* **5**: 316–319. 24 Ap 1905.
- Greene, E. L.** Diagnoses *Aragallorum*. *Proc. Biol. Soc. Wash.* **18**: 11–17. 20 Ja 1905.  
Descriptions of 19 new species.
- Greene, E. L.** Some West American red cherries. *Proc. Biol. Soc. Wash.* **18**: 55–60. 21 F 1905.  
Descriptions of 10 new species in *Cerasus*.
- Harper, R. M.** Some noteworthy stations for *Pinus palustris*. *Torreyana* **5**: 55–60. 27 Ap 1905.
- Hollick, A.** The occurrence and origin of amber in the eastern United States. *Am. Nat.* **39**: 137–145. *pl.* 1–3. 8 Ap 1905.
- Howe, M. A.** Some of the coralline seaweeds in the museum. *Jour. N. Y. Bot. Gard.* **6**: 59–64. *pl.* 24, 25. Ap 1905.
- Kellerman, W. A.** Elementary mycology. *Jour. Myc.* **11**: 34–38. 4 Ja 1905.
- Kellerman, W. A.** Ohio fungi. Fascicle X. *Jour. Myc.* **11**: 38–45. 4 Ja 1905.
- Kellerman, W. A.** Uredineous infection experiments in 1904. *Jour. Myc.* **11**: 26–33. 4 Ja 1905.
- King, C. A.** Experiment to show that the absence of light alone will prevent the process of photosynthesis. *Torreyana* **5**: 67, 68. 27 Ap 1905. [Illust.]
- Lloyd, C. G.** The *Lycopodiaceæ* of Australia, New Zealand, and neighboring islands. 1–44. *pl.* 25–39 + *f.* 1–49. Cincinnati, Ohio, Ap 1905.
- Longyear, B. O.** An undescribed *Alternaria* affecting the apple. *Science* II. **21**: 708. 5 My 1905.

- MacDougal, D. T.** Discontinuous variation and the origin of species. Science II. 21: 540-543. 7 Ap 1905.
- Maxon, W. R.** A new *Botrychium* from Jamaica. Bull. Torrey Club 32: 219-222. pl. 6. 6 My 1905.  
*B. Underwoodianum* sp. nov.
- Memminger, E. R.** *Agaricus amygdalinus* M. A. C. Jour. Myc. 11: 12-17. 4 Ja 1905.
- Morgan, A. P.** *Sphaeria calva* Tode. Jour. Myc. 11: 1. 4 Ja 1905.
- Murrill, W. A.** Terms applied to the surface and surface appendages of fungi. Torreya 5: 60-66. 27 Ap 1905.
- Nash, G. V.** The crested orchid [*Coelogyne cristata*]. Jour. N. Y. Bot. Gard. 6: 64, 65. pl. 26. Ap 1905.
- Parish, S. B.** Birds and mistletoe: a correction. Torreya 5: 68, 69. 27 Ap 1905.
- Parish, S. B.** A preliminary synopsis of the Southern California *Cyperaceae*—VI. Bull. So. Calif. Acad. Sci. 4: 8-13. pl. 9, 10. 21 F 1905;—VII. Bull. So. Calif. Acad. Sci. 4: 51, 52. 1 My 1905.  
With description and illustration of *Scirpus pacificus* Britton, sp. nov.
- Penhallow, D. P.** The anatomical changes in the structure of the vascular cylinder incident to the hybridization of *Catalpa*. Am. Nat. 39: 113-136. f. 1-8. 8 Ap 1905.
- Perkins, J.** Fragmenta floræ philippinæ: contributions to the flora of the Philippine Islands. 1: 153-212. pl. 4. Leipzig, 20 F 1905.  
This fascicle is devoted wholly to the description of novelties.
- Pinchot, G.** A primer of forestry. Part II. — Practical forestry. U. S. Dept. Agr. Forestry Bull. 242: 1-88. pl. 1-18 + f. 1-47. 1905.
- Riddle, L. C.** Brush Lake algae. Ohio Nat. 5: 268, 269. 24 Ja 1905.
- Riddle, L. C.** Development of the embryo-sac and embryo of *Sta-  
phylea trifoliata*. Ohio Nat. 5: 320-325. f. 1-27. 24 Ap 1905.
- Riddle, L. C.** Notes on the morphology of *Philotria*. Ohio Nat. 5: 304, 305. 23 Mr 1905.
- Rose, J. N.** Studies of Mexican and Central American plants—No. 4. Contrib. U. S. Nat. Herb. 8: i-ix. 281-339. pl. 63-72 + f. 14-19. 20 Ap 1905.  
Includes descriptions of 2 new genera and many new species of flowering plants.
- Sargent, C. S.** Manual of the trees of North America (exclusive of Mexico). i-xxiii. 1-826. map + f. 1-642. Boston, [Mr] 1905.

- Schaffner, J. H.** The classification of plants, I. Ohio Nat. 5: 298-301. 23 Mr 1905.
- Schaffner, J. H.** Key to the genera of Ohio woody plants in the winter condition. Ohio Nat. 5: 277-286. 24 F 1905.
- Schaffner, J. H.** Key to Ohio poplars in the winter condition. Ohio Nat. 5: 271. 24 Ja 1905.
- Schaffner, J. H.** Key to Ohio walnuts based on twig characters. Ohio Nat. 5: 307. 23 Mr 1905.
- Schaffner, J. H.** The life cycle of a heterosporous pteridophyte. Ohio Nat. 5: 255-260. *f. 1.* 24 Ja 1905.
- Schaffner, J. H.** *Lycopodium porophilum* in Ohio. Ohio Nat. 5: 301. 23 Mr 1905.
- Schaffner, J. H.** Mat plants. Ohio Nat. 5: 265, 266. 24 Ja 1905.
- Schaffner, J. H.** Plants with nodding tips. Ohio Nat. 5: 267. *f. 1.* 24 Ja 1905.
- Schaffner, J. H.** The struggle for life on a certain sandbar. Ohio Nat. 5: 302, 303. *f. 1.* 23 Mr 1905.
- Schaffner, M.** Key to the Ohio sumacs in the winter condition. Ohio Nat. 5: 293. 24 F 1905.
- Scholl, L. H.** Key to the Ohio hickories in the winter condition. Ohio Nat. 5: 269. 24 Ja 1905.
- Seaver, F. J.** A new species of *Sphaerosoma*. Jour. Myc. 11: 2-5. *pl.* 4 Ja 1905.  
*S. echinulatum* sp. nov., from Iowa.
- Smith, L. M.** Key to the Ohio elms in the winter condition. Ohio Nat. 5: 316. 24 Ap 1905.
- Tillman, O. I.** Ohio plants with tendrils. Ohio Nat. 5: 305-307. 23 Mr 1905.
- Wacker, A. H.** Ecological notes on Ohio pteridophytes. Ohio Nat. 5: 295-297. 23 Mr 1905.
- Winslow, C.-E. A. & Rogers, A. F.** A revision of the *Coccaceae*. Science II. 21: 669-672. 28 Ap 1905.
- York, H. H.** The hibernacula of Ohio water plants. Ohio Nat. 5: 291-293. *f. 1-3.* 23 Mr 1905.